

Patent Claims

1. Armored vehicle, especially combat vehicle, having a vehicle housing disposed on a carriage, the vehicle housing being provided on its upper side with a roof plate in which is disposed an opening surrounded by a frame and in which is mounted, via a pivot bearing, the gun carriage of a weapon, characterized in that the frame comprises two parts (2,3) that are concentrically disposed within one another and are secured to one another, namely a non-mechanically finished outer part (2) that has coarse tolerances and is welded to the vehicle housing, and a mechanically finished inner part (3) that has close tolerances and is positively connected with the outer part (2), wherein the pivot bearing of the gun carriage is disposed on the inner part.

2. Vehicle according to claim 1, characterized in that the outer part (2) of the frame is provided with a collar that is embodied as a closed ring and that is composed of polygonally disposed collar plates (2.1) that abut one another and are interconnected, and are disposed at a prescribed angle relative to the roof plate (1), and inserted on the inner side of the collar, at a prescribed spacing from the roof plate (1), is a collar ring having a

polygonal outer periphery, the upper side of the collar ring forming a plateau.

5 3. Vehicle according to claim 2, characterized in that the collar plates (2.1) are disposed perpendicular to the roof plate (1).

 4. Vehicle according to claim 2, characterized in that the collar plates are disposed at an inclined arrangement to the roof plates.

10

 5. Vehicle according to one of the claims 2 to 4, characterized in that the collar ring is composed of individual base plates (2.2) that are welded together.

15

 6. Vehicle according to one of the claims 2 to 5, characterized in that the collar plates (2.1) are interconnected by welding and the collar ring is welded into the collar.

20

 7. Vehicle according to one the claims 2 to 6, characterized in that the inner periphery of the collar ring has a circular configuration.

8. Vehicle according to one of the claims 1 to 7, characterized in that the inner part (3) of the frame is provided with a cylindrical ring, the diameter of which is smaller than the smallest diameter of the collar and on the underside of which is disposed an annular bearing plate (3.2), and on the upper side of which is disposed an annular top plate (3.3), whereby the minimum outer diameter of the top plate (3.3) corresponds at least to the minimum outer diameter of the collar, while the maximum outer diameter of the bearing plate (3.2) is smaller than the minimum inner diameter of the collar yet greater than the inner diameter of the collar ring.

9. Vehicle according to claim 8, characterized in that the top plate (3.3) and the bearing plate (3.2) are connected with the cylindrical ring (3.1).

10. Vehicle according to claim 8 or 9, characterized in that top plate (3.3) and/or bearing plate (3.2) have a polygonal outer periphery and a circular inner periphery.

11. Vehicle according to one of the claims 8 to 10, characterized in that in the condition of the inner part (3) where it is inserted into

the outer part (2), sealing material (6.2) is disposed between the upper side of the collar ring and the underside of the bearing plate (3.2).

12. Vehicle according to one of the claims 8 to 11, characterized in that disposed in the collar are slots that extend parallel to the roof plate (1) and in which, in the state of the inner part (3) wherein it is inserted into the outer part (2), interlocking elements (2.3) are inserted that extend beyond the bearing plates (3.2) of the inner part.

13. Vehicle according to claim 12, characterized in that with a collar having polygonally disposed collar plates (2.1), the slots are disposed into the corner regions of the abutting collar plates (2.1).

14. Vehicle according to one of the claims 1 to 13, characterized in that in the installed state of the frame, the interior space of the frame is filled with a filler (7) in the region between outer part (2) and inner part (3).

15. Vehicle according to one of the claims 1 to 14, characterized in that protection modules (4) are mounted or can be mounted on the outer side of the collar.

5 16. Vehicle according to one of the claims 1 to 15, characterized that in the installed state the frame is covered by a hood or shroud (5), the outer shape of which is adapted to the polygonal periphery of the collar, whereby the outer walls of the shroud (5) that are opposite the collar plates extend at an angle to the roof
10 plate (1).

17. Vehicle according to claim 16, characterized in that the shroud (5) is embodied in a radar signature optimized manner with regard to the selection of material and shape.

15 18. Vehicle according to claim 16 or 17, characterized in that ventilation slots are provided between shroud (5) and roof plate (1) as well as in the upper portion of the shroud (5).